CLAIMS (29771)

What is claimed is:

- 1. A method of layered encoding, comprising:
- (a) applying a base layer perceptual filter to a signal to yield a base layer filtered signal;
- (b) finding a base layer estimate for said signal by base layer error minimization with said base layer filtered signal; and
- (c) finding a first enhancement layer estimate for said signal by error minimization with a first enhancement layer perceptual filter applied to an error in said base layer after inverse filtering with said base layer perceptual filter,
- (d) for j = 2, ..., N, finding a jth enhancement layer estimate for said signal by error minimization with a jth enhancement layer perceptual filter applied to an error in said (j-1)st enhancement layer after inverse filtering with said (j-1)st enhancement layer perceptual filter, wherein at least one of said jth enhancement layer perceptual filters is weaker than said base layer perceptual filter.
- 2. The method of claim 1, wherein:
 - (a) said estimates are synthesis filtered CELP excitations.
- 3. A layered encoder, comprising:
 - (a) an estimator for each layer of a layered encoder; and
- (b) perceptual filters including inverse filters for each layer, wherein at least one of said layer perceptual filters is weaker than another of said layer perceptual filters.

- 4. A method of decoding a layered encoded signal, comprising:
- (a) applying a short-term postfiltering to a synthesized layered encoded signal wherein the short-term postfiltering differs for at least two of the number of layers decoded to form said synthesized layered encoded signal.
- 5. A method of decoding a layered encoded signal, comprising:
- (a) applying a long-term postfiltering to a synthesized layered encoded signal wherein the long-term postfiltering is independent of the number of layers decoded to form said synthesized layered encoded signal.